

BLACKBURN

EXHIBIT A

CV of Thomas L. Blackburn

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Thomas Blackburn is a noted technologist, product developer, consultant, patent analyst, educator, and expert witness specializing in mobile, cellular, Blue-Tooth wireless technologies, GPS technologies, wired technologies, networks, phones, standards, location-based-services, hardware electrical designs, battery design & analysis and systems. Mr. Blackburn has over thirty years of experience in the field of electrical, industrial, RF and telecommunications engineering. He has worked for private organizations and has been a founder of several successful start-up telecommunications companies. Mr. Blackburn holds over 35 US and International Patents in the telecommunications field.

Since 1996, his professional activities and services have focused exclusively on mobile, cellular, Blue-Tooth wireless technologies, GPS, A-GPS, wireless and wired technologies, forensics, electronic discovery, markets, standards, spectrum, regulations, damages, networks, hardware electrical designs, battery design & analysis and services. He has taught seminars on mobile, cellular and fixed wireless technologies. He has served as a plaintiff and defendant expert witness on a wide spectrum of civil, criminal and business matters/litigation involving wired and wireless technologies, electronic discovery, cable damages & repair costs, communications products and services.

As a patent analyst, he has assisted many leading law firms in defending against or asserting claims of patent infringement and patent validity, including IPR's. This patent work has encompassed Wi-Fi/WLAN standards, Bluetooth standards, DSL standards, all generations of standards for GSM, UMTS, LTE, and CDMA2000 cellular standards, including GSM/3GPP, ETSI, OMA, WAP, CT-2 / DECT / COMS. This patent work also included electrical designs including battery designs, equipment for reading barcodes and other labels, smart-meter designs with battery backup.

He has written many expert reports for non-infringement, infringement, invalidity and validity. Over 25 Declarations and Affidavit's. He has given over 20 depositions and has testifying experience. He has assisted with post grant reviews including IPR's to opine on the validity of patents. He has performed due diligence on patents in the early stages of infringement. He has testified at deposition or at a jury trial over 15 times.

As a cellular forensic analyst, he has worked closely with private attorneys and Public Defenders in analyzing call detail records and has opined on cell phone location after performing cell site and CDR analysis. He has testified at deposition or at a jury trial 25 times.

As an electronic discovery expert, he has worked closely with private attorneys in determining the transmission and receipt of critical documents such as DMCA notices, contracts, agreements, and other legal documents using email, FAX, and other transmissions media.

As a hardware electrical designer, he analyzed failed electrical systems to determine causes.

Mr. Blackburn's expertise in cellular, mobile, GPS, wired and wireless communications encompasses the following areas:

Computer, Cellular/Mobile, GPS and Wireless Technologies

- 2G, 3G & 4G mobile networks
- Location based services – GPS, A-GPS, Wi-Fi, Triangulation services
- SMS/MMS Standards & Protocols
- Cordless Telephone Standards
- Cell phone design
- Qi Design & Analysis
- Auto-dialer design
- GPS designs
- GPS devices – data analysis & tracking
- Cellular phones, Handsets, Smartphones & PDA's including operating systems, SMS Messaging, MMS, WAP, Web Browsers, filters and access control
- Headphone review & analysis
- Earbud/earphone analysis
- Mobile & Wireless VoIP
- Interstate & International Calling Standards – Billing, Access Charges
- Bluetooth devices
- Fax transmissions- Copyright DMCA notices
- Wired technologies – DSL, ADSL2+, VDSL
- Power & charger adaptors / smart universal power adaptors / smart tips / Mophie
- E-cigarette design, failure analysis, battery explosion
- Determine cause of failure of hardware electrical systems and devices.
- Microprocessor design & implementations
- Multiple Access Technologies - CDMA, TDMA, FDMA, DSSS
- Network Standards
 - GSM, GPRS & EDGE
 - HSDPA, HSUPA, HSPA+
 - iDEN
 - IS-95, CDMA2000, EV-DO
 - IS-54, IS-136
 - CT-2 / DECT / COMS Standards for Cordless Telephones
 - LTE (Long Term Evolution)
 - WCDMA/UMTS
 - Wi-Fi
 - DSL

Patent Infringement for Wired & Wireless Technologies

- Due diligence on patent claims
- Patent infringement/non-infringement analysis
- IPR Cases
- Patent validity/invalidity analysis & prior art search and opinions
- Claim charts & proof packages
- Technology evolutions
- Expert reports
- Testify

Work History

GTE (General Telephone & Electronics) *Advanced Development Group* 1972 – 1985

State of the art telephony designs, outside plant, coin & pay phone designs – over 25 US & International Patents

International telephone standards, designs

Go Digital Telecommunications – Engineering Director / Founder 1996 – 2006

State of the art telephony designs – 3 US Patents

Consultant / Expert Witness (05/1985 – Present)

Expert witness & testify, Intellectual Property support services including reverse engineering of hardware & software, copyright & patent claims analysis, research, prior art searches. Cellular systems, GPS, Location Bases Systems, telephone designs, copper cable systems / design, fiber optic systems, Internet Access systems DSP systems, FPGA architectures.

Electronic Product Design and development including audio/video system design, digital & analog design, microcontroller development, battery designs and backup systems, power supply design, e-cigarette failure analysis, Qi design, controller design, earbud analysis.

Consulting Clients:

Hawg Wired Inc. 1997 – 2010

Provided consulting services for Audio System design for motorcycle systems

Echelon Inc. 2005 - 2009

Provided consulting services for Electricity Smart Meter, Lighting fixture & iLON Internet Server, power supply testing, NEBS Level 4 testing. Power supply design w/ power management. Cellular designs.

E/O Networks 1988 - 1990

Provided consulting services regarding VoIP, FTTH (Fiber-to-the-Home) specifications and design. Network Management design. – Patent & copyright reviews.

Raychem 1989 - 1996

Provided consulting services regarding DSL /HDSL systems design. Cable specification & design

Raynet 1988 - 1992

Provided consulting services regarding FTTH (Fiber-to-the-Home) specifications and design. Network Management design – copyright of CD manual for electrical appliances

Able Telecommunications 1987 - 1989

Provided consulting services regarding channel bank & line card design.

International Compliance & Approvals, Inc.

Provided consulting services regarding testing telecommunications systems per UL / Telecordia

Evotech – 1985 - 1995

Provided consulting services regarding systems designs for both commercial & industrial applications. Cell phone designs, navigation devices (GPS), medical devices.

Major expert case areas he has worked on include:

- Patent Infringement / Claim Elements - Review, Comparison & Analysis, prior art & discovery
- Patent Infringement / Validity & Invalidity reports, depositions, testify
- Cell phone call records analysis, tracking analysis, GPS, A-GPS
- Cell phone memory analysis (Smart card, SIM, hard-drive) for deleted messages, video, pictures
- 911 & E911 liability, compliance and regulatory issues, equipment failure and maintenance
- Cell Phone design (hardware & mechanical) – patent infringement
- Cell Phone charging pad – Qi system
- FCC Standards & Regulations – Interstate, International calling
- FCC Tariffs, Access Charges, LATA calls
- Design Standards: 3GPP, ETSI, ITU; Wi-Fi Standards 802.11b/g/n
- Networks including UMTS, GSM, TDMA, CDMA, EV-DO, GPRS, FOMA, wireless IP, etc.
- Services including SMS, EMS, MMS, VoIP, SS7, Wi-Fi, email, instant messaging, etc.
- Protocols including SMS, EMS, MMS, HSDPA, WAP, TCP/IP, UDP, etc.
- 800 MHZ Radio System architecture, design, audits and failure analysis – Repeater systems
- Cisco servers, routers; network switch architectures; packet switch routing
- Consumer product analysis, forensic testing, reverse engineering, BOM review, construction
- analysis – computers, TV Desk Top units, Auto-dialers, wireless devices, Headphones, e-cigarette.
- Determine cost and sales price for products – Insurance claims, thief, ebay
- Power system analysis / high voltage failures / proper grounding analysis
- Battery design, analysis, and backup power switching systems
- Battery failure analysis
- 20W – 50W power supply designs w/ power management, line powered systems
- PC Power Supply (AT, ATX & Brick-laptop), power management, market surveys & analysis
- Consumer product analysis for proper design / construction & assembly per UL
- Cable liability case involving cable installation procedures
- Cable damage cases and cost analysis
- UL safety testing, NEBS, IEC62052/53, IEC60601 (Medical), IEC61000 & RBOC lab testing
- Class Action Lawsuits – earbud analysis
- Electrical failure analysis and causes – water heater, electronic cable assemblies.
- Twisted copper cable design / specification for DSL / ADSL2+ transport, 10/100 Mbit
- Computer / laptop analysis – records monitoring
- FAX, email using IP
- GPS devices – design, data analysis, data recovery
- Location Based Systems
- Laptop design, keypads, battery, battery chargers
- Bluetooth devices
- Audio headphone testing & verification of operation (Boise, ear buds for cell phones).
- DSP & FPGA desktop / plug-in architecture design & reverse engineering
- Fiber Optic system design & failure analysis – network management design
- Multi-channel ADSL systems using DSL (gSHDSL) transport technology

Education

<u>Year</u>	<u>College/University</u>	<u>Degree</u>
1972-77	Stanford University (Satellite classes @ GTE)	Graduate work in Engineering and Business – non accredited
1972	Santa Clara University (Satellite classes)	Graduate work in Engineering and Business – non accredited
1971	San Jose State University, San Jose, CA	BS w/distinction, Electrical Engineering GPA 3.25

Patents Awarded - 37

US Patent # 3,766,414	Issued Oct. 16, 1973
US Patent # 3,781,482	Issued Dec. 25, 1973
US Patent # 4,012,688	Issued Mar. 15, 1977
US Patent # 4,048,576	Issued Sept.13, 1977
US Patent # 4,145,665	Issued Mar. 20, 1979
US Patent # 4,170,722	Issued Oct. 09, 1979
US Patent # 4,205,275	Issued May. 27, 1980
US Patent # 4,240,024	Issued Dec. 16, 1980
US Patent # 4,405,903	Issued Sept.20, 1983
US Patent # 4,439,634	Issued Mar. 27, 1984
US Patent # 4,536,871	Issued Aug. 20, 1985
US Patent # 4,580,260	Issued Apr. 01, 1986
US Patent # 4,583,220	Issued Apr. 15, 1986
US Patent # 4,591,855	Issued May. 27, 1986
US Patent # 4,633,459	Issued Dec. 30, 1986
US Patent # 4,642,426	Issued Feb. 10, 1987
US Patent # 4,658,395	Issued Apr. 14, 1987
US Patent # 5,691,718	Issued Nov. 25, 1997
US Patent # 6,556,638	Issued Apr. 29, 2003
US Patent # 6,567,522	Issued May. 20, 2003
US Patent # 7,023,877	Issues April 04, 2006

International Patent # WO 96/41441	Issued Dec. 19, 1996
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Canadian Patent # 961,097	Issued Jan. 14, 1975
Canadian Patent # 991,765	Issued June. 22, 1976
Canadian Patent # 1,107,824	Issued Aug. 25, 1981
Canadian Patent # 1,123,068	Issued May. 04, 1982
Canadian Patent # 1,123,924	Issued May. 18, 1982
Canadian Patent # 1,132,200	Issued Sept. 21, 1982
Canadian Patent # 1,132,592	Issued Oct. 12, 1982
Canadian Patent # 1,137,178	Issued Dec. 07, 1982
Canadian Patent # 1,165,409	Issued Apr. 10, 1984
Canadian Patent # 1,190,681	Issued July 16, 1985
Canadian Patent # 2,223,977	Issued Dec. 19, 1996
European Patent #EP0872067	Issued Oct. 21, 1998
Australian Patent # AU6038096	Issued Dec. 30, 1996
South Africa Patent # ZA9604841	Issued Dec. 08, 1997
Argentina Patent # A002206	Issued Jan. 07, 1998

Focus Groups

Nichols Research – PC Power Supplies – Market Analysis & Surveys, Oscilloscopes, Semiconductors, cell phone architectures, microprocessors, routers, patents.

Publications & Presentations (Lectures, Teaching Classes)

IEEE Journal –Articles regarding electronics & telecommunications devices (1975 – 1982) – Co-author with Jim Stewart, Neal Zelmer (GTE Lenkurt Inc.)

Presentations at IEEE & NEC conventions and meetings. Presentations at Public Defenders Office's

Articles for Quarterly Newsletters – Forensis Group, Consolidated

Professional Associations and Achievements

- IEEE 1972 – 1985- currently not a member
- 1999 “Super Star” award for superior telecommunications design

Patent Cases in the past 7-10 years:

Case	Vanguard Products Group v. Invue Security DEFENDANT 2020 Active Patent # 10,043,358 IPR # IPR2020-00069
Client	Tim F. Williams Dority & Manning, P.A. Two Liberty Square 75 Beattie Place, Suite 1100 Greenville, SC 29601 USA (864) 271-1592 (864) 527-1554 direct
Subject Matter	Merchandise security systems and methods for displaying and protecting an article of merchandise from theft. IPR
Cause	PTAB Issue
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art patent searches • Summary in support of validity

Case	Solaredge Technologies v. SMA Solar Technology DEFENDANT 2019 Active PLAINTIFF in IPR proceedings Patent # 8,922,048 IPR # IPR2020-00021	
Client	Michael Kucher mkucher@slatermatsil.com Slater Matsil, LLP 17950 Preston Road, Suite 1000 Dallas, Texas 75252 (972) 707-9023	Thomas Eschweiler TEschweiler@epiplaw.com Eschweiler & Potachnik, LLC 629 Euclid Ave., Suite 1000 Cleveland, Ohio 44114 (216) 502-0600
Subject Matter	System, Apparatus and Methods – PV Sub-Generator Box & PV Inverter for a PV System IPR	
Cause	PTAB Issue	
Work Product/Service Provided	<ul style="list-style-type: none">• Technical analysis of related patents• Prior Art patent searches• Summary in support of validity• Claim construction	

Case	Local Intellegence, LLC v. HTC America, Inc. et al PLAINTIFF 2018 Active
Client	Nicole D. Galli ndgalli@ndgallilaw.com Law Offices of N.D. Galli LLC 2 Penn Center Plaza, Suite 910 1500 JFK Blvd Philadelphia, PA 19102
Subject Matter	System, Apparatus and Methods for refreshing a display of a telephone
Cause	Patent Infringement
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Claim terms / Claim Construction / Extrinsic Evidence • Declaration in support of Claim Construction briefing

Case	Mobility Workx, LLC v. T-Mobile, et. al PLAINTIFF 2018 Active
Client	David Skeels dskeels@whitakerchalk.com Whitaker Chalk Swindle & Schwarz PLLC 301 Commerce Street, Suite 3500 Fort Worth, TX 76102-4186
Subject Matter	System, Apparatus and Methods for proactive allocation of wireless communication resources (Handover procedures)
Cause	Patent Infringement
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Claim terms / Claim Construction / Extrinsic Evidence • Declaration in support of Claim Construction briefing

Case	Smart Meter Tech. v. Duke Energy PLAINTIFF 2017 Active ITRON, Inc. v. Smart Meter Technologies (IPR) DEFENDANT
Client	Rick Sanchez rsanchez@whitakerchalk.com Decker A Cammack cdammack@whitakerchalk.com Whitaker Chalk Swindle & Schwarz PLLC 301 Commerce Street, Suite 3500 Fort Worth, TX 76102-4186
Subject Matter	Smart Meter technology Power Supply / Battery backup systems Power line communication – cellular, Wi-F-, PLC
Cause	IPR Petition by ITRON for Smart Meter Patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Claim terms • Prior Art References • Wrote IPR Declaration

Case	NIC v. Newport Trial Group PLAINTIFF 2017 Active
Client	James M. Sabovich Callahan & Blaine 3 Hutton Centre Drive Ninth Floor Santa Ana, CA 92707
Subject Matter	Location Servers, Data bases, GPS, UMTS, LTE 3GPP Messages Cell Phone Data Records Cell Site Location Sites
Cause	Declaration for accuracy & reliability of phone records
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of records • Wrote Declaration

Case	Nokia Corp. v. Huawei Tech. Co. Ltd. PLAINTIFF 2016 Closed
Client	Scott Stevens Scott.Stevens@alston.com Alston & Bird LLP 1201 W. Peachtree Street, Atlanta, Georgia 30309 (404) 881-7000
Subject Matter	Cellular handover technologies Inter-RAT & idle mode relocation Handover to non-3GPP
Cause	Infringement
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Claim terms • Prior Art References

Case	TCL v. Ericsson DEFENDANT 2016 Closed
Client	Lisa Mandrusiak <u>lmandrusiak@oblon.com</u> Oblon, McClelland, Maier & Neustadt, LLP 1940 Duke Street, Alexandria, Virginia Direct: 703.412.6492
Subject Matter	Location Servers, Data bases, GPS, A-GPS; UMTS, LTE 3GPP Messages Position updating method, user preferences, determinations
Cause	IPR Petition by Plaintiff for Defendant's Patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art References • IPR analysis and rebuttal • Wrote (3) IPR Declarations • Validity report

Case	COMARCO WIRELESS TECHNOLOGIES, INC. v. Apple Inc. PLAINTIFF 2015 Closed
Client	Charles Quinn- (Charles Quinn; Ethan R. Fitzpatrick; Glen M Diehl) <u>CQuinn@grahamcurtin.com</u> Charles Quinn; Ethan R. Fitzpatrick; Glen M Diehl GRAHAM CURTIN PA 4 Headquarters Plaza Morristown, NJ 07962-1991
Subject Matter	Charging adaptors & smart cables.
Cause	Infringement of patent for smart cables
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art References • IPR analysis and rebuttal

Case	Core Wireless v. Apple Inc. PLAINTIFF 2014 Closed
Client	Dino Hadzibegovic - (Bunsow De Mory Smith & Allison LLP) <u>dhadzibegovic@bdiplaw.com</u> Bunsow De Mory Smith & Allison LLP 55 Francisco Street, Suite 600 San Francisco, CA 94133 (415) 426-4735
Subject Matter	Protocols and standards – 3GPP / OMA GSM, UMTS, LTE Quality Measurement Report protocol (QoS parameters); Dynamic Configurations Handoff / Handover Procedures
Cause	Infringement of patent for data transmission
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art References • Claim construction • Validity charts / reports • Infringement reports

Case	Skyhook v. Google PLAINTIFF 2014 Settled
Client	Paul Ehrlich – Tensegrity Law Group LLP paul.ehrlich@tensegritylawgroup.com TENSEGRITY LAW GROUP LLP 555 Twin Dolphin Drive, Suite 360 Redwood Shores, CA 94065 650-802-6045 (phone) 650-802-6001 (fax)
Subject Matter	Location Based System and Applications – GPS, A-GPS, Wi-Fi; Server Location Storage Tracking system. Blue-Tooth. Wi-Fi servers, data bases
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art References • Claim construction • Validity charts / reports • Infringement reports

Case	BookIT v. Google PLAINTIFF 2014 Closed
Client	Annie Huang – Robins, Kaplan, Miller & Ciresi ahuang@rkmc.com Robins, Kaplan, Miller & Ciresi 601 Lexington Ave. New York, NY 10022 (212) 980-7438
Subject Matter	SMS Network Architecture & System, Location servers & databases Booking Systems
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Prior Art References • Claim construction • Validity charts / reports • Infringement reports

Case	SmartPhone Technologies, Inc. v. HTC Corp. PLAINTIFF 2013 Settled
Client	Ed Nelson- (Nelson Bumgardner Casto– Intellectual Property Litigation) <u>enelson@nbclaw.net; tcecil@nbclaw.net</u> Nelson Bumgardner Casto 3131 W. 7 th Street, Suite 300 Fort Worth, Texas 76107 (817) 806-3812
Subject Matter	Telephony Functionality of Smartphone; Synchronization of computers Alternative Network Links; Managing Phone Calls on a PDA; Data Exchange between Computers Handset functionality
Cause	Infringement of patents
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents & review of Nokia patent portfolio • Prior Art References • Claim construction • Validity charts / reports • Infringement reports

Case	SmartPhone Technologies, Inc. v. RIM Corp PLAINTIFF 2013 Settled
Client	James C. Hall – (Hays Bostock Cronin LLC) Hays Bostock Cronin LLC 300 Brickstone Square Suite 900 Andover, MA 01810
Subject Matter	Protocols and Standards – 3GPP / OMA GSM, UMTS Synchronization methods, communications methods, paging methods Telephony Functionality of Smartphone; Handset functionality
Cause	Infringement of patents
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents & review of Nokia patent portfolio • Prior Art References • Claim construction • Validity charts / reports

Case	Netairus Technologies, LLC v. Apple Inc. PLAINTIFF 2013 Closed
Client	Marc Lorelli - (Law Firm –Brooks Kushman P.C.) <u>mlorelli@brookskushman.com</u> Brooks Kushman P.C. 1000 Town Center Drive, 22 nd Floor Southfield, MI 48075-1238 (248) 358-4400
Subject Matter	Protocols and standards – 3GPP / OMA GSM, UMTS UTRAN Wireless Handset Communications System SMS Content; Web based applications
Cause	Infringement of patent for data transmission / power of transmission
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents and cellular / Wi-Fi networks • Expert report on Infringement • Expert report on Validity • Deposition scheduled

Case	Netairus Technologies, LLC v. Apple Inc. PLAINTIFF 2013 Closed
Client	Mark D. Roth - (Orum & Roth, LLC) <u>markdroth@gmail.com</u> ORUM & ROTH, LLC 53 West Jackson Blvd. Suite 620 Chicago, Il 60604 312-922-6262
Subject Matter	Protocols and standards – 3GPP / OMA GSM, UMTS UTRAN Wireless Handset Communications System SMS Content; Web based applications
Cause	Infringement of patent for data transmission / power of transmission
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents and cellular / Wi-Fi networks • Expert report on Infringement • Expert report on Validity • Deposition -Nov 3, 2011 • Re-exam of patent → Found valid → 2nd deposition Aug 15, 2013 • Testified in court – Infringement & Validity – Dec. 2013

Case	2-Way Computing v. Sprint PLAINTIFF 2010 Closed
Client	Christina McCullough- (Knobbe Martens – Intellectual Property Law) christina.mccullough@kmob.com Knobbe Martens 1420 Fifth Avenue, Suite 3600 Seattle, WA 98101
Subject Matter	Protocols and standards – 3GPP / OMA Computer Station Audio Communications – Blue-Tooth, Wi-Fi.
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Claim construction

Case	Plant Eq. (Cassidian Communications) v Intrado PLAINTIFF 2012 Closed
Client	Matt Greinert - (Dewey & LeBoeuf) mgreinert@dl.com Dewey & LeBoeuf One Montgomery Street, Suite 3500 San Francisco, CA 94104 (415) 951-1100
Subject Matter	Protocols and standards – 3GPP / OMA Emergency systems - 911
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Review of infringing products • Claim construction

Case	KARL v. Purple Tree Technologies , Inc. DEFENDANT 2012 Closed
Client	Richard Brophy- (Armstrong Teasdale, LLP– Intellectual Property Litigation) Armstrong Teasdale LLP 7700 Forsyth Blvd. Suite 1800 St. Louis, MO 63105
Subject Matter	Patent Infringement Transmission technologies – CDMA/ UMTS
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents • Review of infringing products • Review routers/servers, security, backup files • Prior Art review / Claim construction

Case	Barry Rosen v. Global Net Access DEFENDANT 2012 Jury Trial - Closed
Client	Jeffrey Cohen– Cohen & Richardson, P.C. Jeffrey Cohen Cohen & Richardson, P.C. 2321 Rosecrans Ave., Suite 4210 El Segundo, CA 90245
Subject Matter	Copyright Infringement
Cause	Infringement of copyright pictures
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related media and technology • Review routers/servers, security measures, backup files • Industry analysis of transmission means • Expert report • Deposition August 31, 2011 • Trial testimony August 01, 2012

Case	Motorola Mobility, Inc. v. Apple Inc. PLAINTIFF 2012 Closed
Client	Quinn Emanuel Urquhart & Sullivan, LLP 500 W. Madison Street, Suite 2450 Chicago, Illinois 60661-2510 (312) 463-2961
Subject Matter	Protocols and standards – Network
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents

Case	Microsoft Corp. v. Motorola Mobility, Inc. DEFENDANT 2012 Closed
Client	Tim Whitfield – (Powell Gilbert, LLP) Powell Gilbert, LLP 85 Fleet Street London, UK +44 20 3040 8032
Subject Matter	Protocols and standards – Network
Cause	Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents

Case	Cellular Trace LLC v. AT&T, T-Mobile et al PLAINTIFF 2010 – 2011 Settled
Client	Decker Cammack Esq. (Law Firm – Nelson Bumgardner Casto, P.C.) <u>dcammack@nbclaw.net</u> Nelson Bumgardner Casto, P.C. 3131 West 7 th St. Suite 300 Fort Worth, TX 76112 (817) 377-3490
Subject Matter	Protocols and standards – 3GPP / OMA SMS, MMS Messaging techniques WAP messages
Cause	Infringement of patent(s) for SMS Messaging technology
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents and SMS Messaging protocols • Review of SMS,WAP,MMS standards • Expert report of infringement / validity • Analysis / testing of infringing cell phone products

Case	Cellular Trace LLC v. Metro PCS PLAINTIFF 2010 – 2011 Settled
Client	Decker Cammack Esq. (Law Firm – Nelson Bumgardner Casto, P.C.) <u>dcammack@nbclaw.net</u> Nelson Bumgardner Casto, P.C. 3131 West 7 th St. Suite 300 Fort Worth, TX 76112 (817) 377-3490
Subject Matter	Protocols and standards – 3GPP / OMA SMS, MMS Messaging techniques WAP messages
Cause	Infringement of patent(s) for SMS Messaging technology
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents and SMS Messaging protocols • Review of SMS,WAP,MMS standards • Expert report of infringement / validity • Analysis / testing of infringing cell phone products

Case	U.S. Pat 7,209,950 Due Diligence PLAINTIFF 2011 Closed
Client	Michell S. Rosenfeld (Pluritas –Experts in Transacting IP) mitch@pluritas.com Pluritas –Experts in Transacting IP 201 California Street – Suite 650 San Francisco, CA 94111
Subject Matter	Inter-carrier SMS/MMS Reformatting
Cause	Possible Infringement of patent
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of patent & technology • Technical report

Case	Wi-LAN, Inc. v. Westell Technologies, Inc. et al. DEFENDANT 2009-2010 Settled
Client	Michael Spillner- Partner (Law Firm – Orrick, Herrington & Sutcliffe LLP) <u>mspillner@orrick.com</u> Orrick 1000 Marsh Road Menlo Park, CA 94025 (650) 614-7400
Subject Matter	ADSL line powered product (L0, L2,L3 Techniques)
Cause	Infringement of patent for ADSL technologies
Work Product/Service Provided	<ul style="list-style-type: none"> • Technical analysis of related patents and ADSL technology • Industry analysis of products • Prior art searches • Claims analysis / claim charts • Expert report of Invalidity

Cell Phone Forensics – GPS, CDR Analysis & Mapping (Criminal Cases)

- **Over 50 cases involving criminal activity – robbery, murder**
- **Testified in court or deposition over 20 times**
- **Use of GPS / A-GPS to track cellular devices**

Cell Phone Forensics – GPS, CDR Analysis & Mapping (Non-Criminal Cases)

- **Over 20 cases involving lawsuits, car accidents, harassment, divorce**
- **Testified in court or deposition over 10 times**
- **Use of GPS / A-GPS to track cellular devices**

Other Cases (Not Involving Cell Phones)

- **Over 15 cases involving Class Action Lawsuits (Apple Inc.), liability cases, manufacturing, counterfeit product analysis**
- **Testified in court or deposition over 10 times**

Class Action Lawsuit (Apple Inc.) - Apple iPod earbuds & earphones (testing & analysis) – Plaintiff

Class Action Lawsuit (Apple Inc.) - Apple iPhone touchscreen components (testing & analysis) - Plaintiff

Sleek Audio v. Curtis Jackson – Headphones – Wi-Fi, Defendant alleged to have copied the Plaintiff's design

M2 Enterprises – involving analysis of BOISE headphones (determine if counterfeit)

Forward v. Sansonic – Manufacturing case involving testing, design review of TV Desk Top products & headphones - Defendant

State Farm General Insurance v. Atomi Inc. – Defendant

State Farm General Insurance v. Best Case Accessories – Defendant\

Regents of The University of California v. The Electric Heater Company - Defendant

PacBell v. Phase 3 – Liability case involving telecommunications cables – Defendant

PacBell v. Griffith – Liability case involving telecommunications cables – Defendant

PacBell v. Pile Foundation - Liability case involving telecommunications cables – Defendant

Verizon v. Community Central Energy – Case involving liability for cable damage / installation / design – Defendant

Auburn Lake Trail POA v. R&S Gates – POA suing R&S Gates for faulty telephone equipment installation.

John Fieldman v. ATT – E911 failure resulting in death and destructive fire. Repeater equipment failure - Defendant

Nokia Siemens Networks v. CarrierComm – involving analyzing microwave IDU / ODU and performance

Rosen v. GNAX – Electronic discovery issue using FAX and email transmissions – Defendant

Miles v. Matsushige – Water damage to electronic equipment – replacement value analysis – Defendant

Pacific Bell v. Tupent – Damage to electrical splice box – estimate of repair for insurance co. – Defendant

Whizz Systems v. KK Builders – Damage to AMS Antenna Measurement System from water leak - Defendant

